

I claim:

1. A measuring while drilling apparatus having a metal pipework extending underground and connected to an antenna, wherein both the metal pipework and the antenna are connected to a type of downhole equipment, whereby the antenna transmits/receives signals with a transceiver located on a surface, wherein the transceiver is connected to the metal pipework and to a ground, comprising:
  - a plurality of sections of wired drill pipe joined together to form the antenna and a section where the antenna is integral with the metal pipework
2. The apparatus according to claim 1 wherein the length of said plurality of sections of wired drill pipe is less than the length of the metal pipework.
3. The apparatus according to claim 2, wherein the length of said plurality of sections of wired drill pipe joined together is a constant ranging from 2,000 to 9,000 feet.
4. The apparatus according to claim 2, wherein the length of said plurality of sections of wired drill pipe joined together is a constant ranging from 2,000 to 5,000 feet.
5. The apparatus according to claim 1 wherein said plurality of sections of wired drill pipe include a drill pipe casing with a wall; and a wire embedded into the wall of the drill pipe casing.
6. A new use for a section of wired drill pipe, comprising:
  - installing one end of the section of wired drill pipe on a type of downhole equipment;
  - installing a conventional metal pipework to the other end of the section of wired drill pipe; and
  - using the section of wired drill pipe as an antenna for a well operation located below a surface from which the metal pipework emanates.

7. The method according to claim 6 wherein the section of wired drill pipe is a first section of wired drill pipe, further including the step of attaching a second section of wired drill pipe to the first section of wired drill pipe for connection between the downhole equipment and the conventional metal pipework.
8. The method according to claim 7, further including joining additional sections of wired drill pipe for forming an antenna having a length ranging from 2,000 to 5,000 feet.
9. The method according to claim 7, further including joining additional sections of wired drill pipe for forming an antenna having a length ranging from 2,000 to 9,000 feet.
10. In an apparatus for telemetering information between a type of downhole equipment at a bottom of an operation and a surface, the apparatus having the combination of a metal pipework; a transceiver at the surface connected to both a ground, spaced from the operation, and the metal pipework; and an antenna for applying signals between two points, wherein the antenna has the improvement comprising:
- a plurality of sections of wired drill pipe joined together to form the antenna, wherein one end of said plurality of sections of wired drill pipe is connected to the metal pipework and another end is connected to the downhole equipment.
11. The apparatus according to claim 10 wherein said plurality of sections of wired drill pipe have a length which is less than the length of the metal pipework.
12. The apparatus according to claim 11, wherein the length of said plurality of sections of wired drill pipe joined together is a constant ranging from 2,000 to 9,000 feet.
13. The apparatus according to claim 11, wherein the length of said plurality of sections of wired drill pipe joined together is a constant ranging from 2,000 to 5,000 feet.
14. The apparatus according to claim 10 wherein said plurality of sections of wired drill pipe include a drill pipe casing with a wall; and a wire embedded into the wall of the drill pipe casing.

15. In a method for telemetering information between a type of downhole equipment at a bottom of an operation and a surface, the method having the combination of providing an antenna proximate the downhole equipment at the bottom of the operation and a transceiver at the surface  
5 connected to both a ground, spaced from the operation, and to a metal pipework of the operation; and applying signals with the antenna between two points along the metal pipework, wherein the step of providing the antenna has the improvement comprising:

joining a plurality of sections of wired drill pipe together to form the antenna; and

10 connecting the plurality of sections of wired drill pipe between the metal pipework of the operation and the downhole equipment.

16. The method according to claim 15, wherein said step of joining the plurality of sections of wired drill pipe together to form the antenna includes joining the plurality of sections of wired drill pipe to a length ranging from 2,000 to 5,000 feet.

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17. The method according to claim 15, wherein said step of joining the plurality of sections of wired drill pipe together to form the antenna includes joining the plurality of sections of wired drill pipe to a length ranging from 2,000 to 9,000 feet.